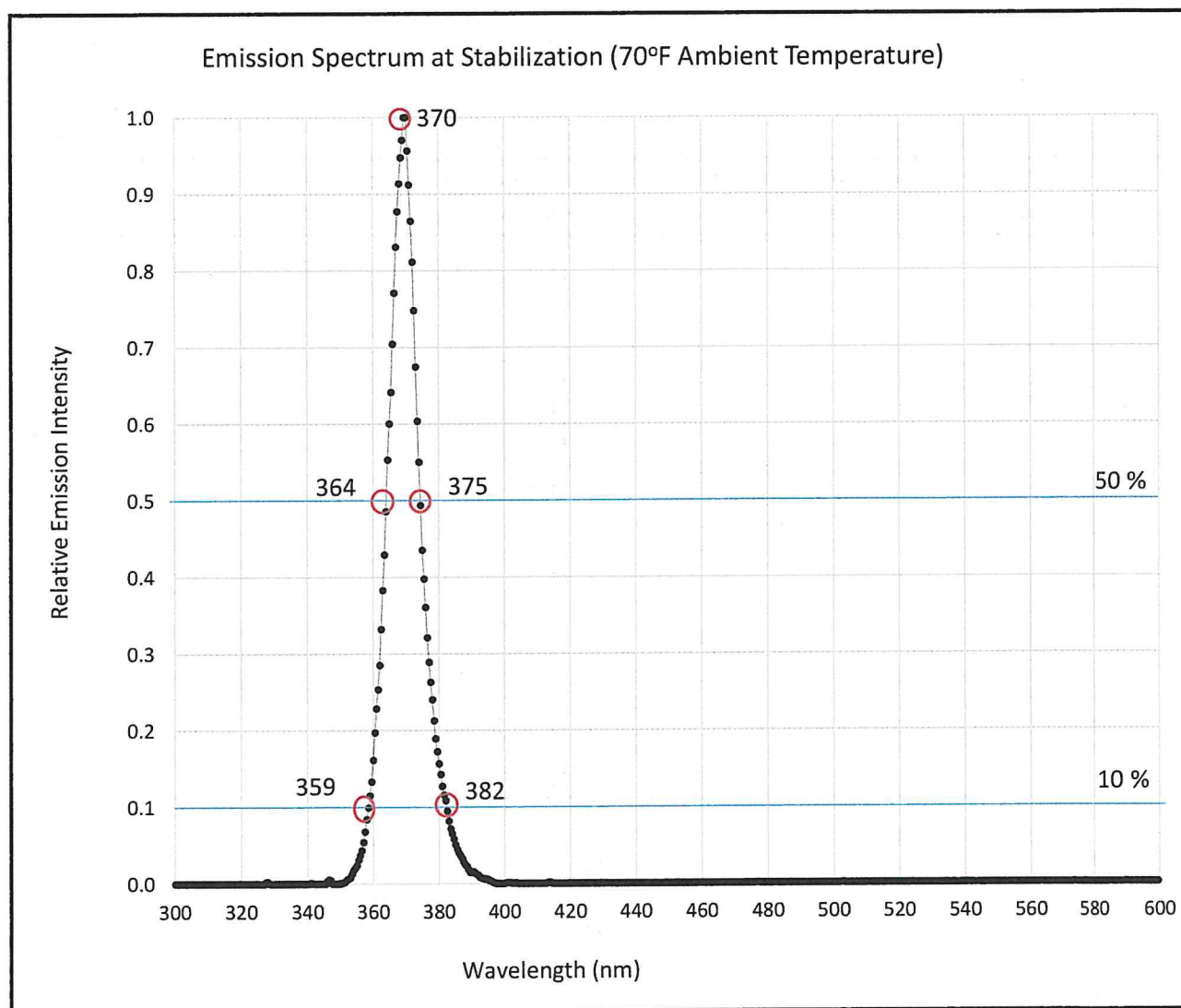




SN# 290648-05 Lamp Specific Acceptance Test

Model: Nomad-Eclipse	Result	Steady State	Acceptable	Units
Peak Output Wavelength	Pass	370 ✓	365 ± 5	nm
Full Width Half Maximum (FWHM)	Pass	11 ✓	≤ 15	nm
Full Width at 10% Maximum	Pass	23 ✓	≤ 30	nm
Longest Wavelength at Half Maximum	Pass	375 ✓	≤ 377	nm
Max Excitation Irradiance (347-382 nm)	Pass	2122 ✓	≥ 1200	$\mu\text{W}/\text{cm}^2$



Inspector:

MHP

Date of Certification:

12-5-2024

This lamp has been tested to conform to all requirements of:

ASTM E3022 ✓ AITM6-1001 ✓ ISO 3059 ✓ RRES 90061 ✓

Nomad-Eclipse, Certificate of Conformance



SN# 290648-05	Switch On	Steady State	Elevated Temp*	Acceptable	Units
Peak Output Wavelength	369	370	370	365 ± 5	nm
Full Width Half Maximum (FWHM)	11	11	12	≤ 15	nm
Full Width at 10% Maximum	23	23	24	≤ 30	nm
Longest Wavelength at Half Maximum	375	375	375	≤ 377	nm
Visible Emission at 12 in	11	10	8	≤ 20	Lux
Visible Emission at 36 in	2	2	2	≤ 5	Lux
Irradiated Area at 12 in (>1000 μW/cm ²)	12	10	9	≥ 5	Inch Diameter
Max Excitation Irradiance (347-382 nm)	2,652	2,122	1,400	≥ 1200	μW/cm ²
Irradiance at Peak Output Wavelength	226	181	120	-	μW/cm ²
Min Working Distance** (< 5000 μW/cm ²)	7	7	6	-	Inches
Max Working Distance** (> 1200 μW/cm ²)	15	14	13	-	Inches
Handle Stabilization Temp (70°F Ambient)	-	120	-	≤ 120	°F
Current Ripple	26	26	26	≤ 58	mA peak-peak
Typical Battery Discharge Time (18Wh Batt)	-	95	-		Minutes

* Tested in a 85° F Environment, the **maximum ambient temperature where still light meets requirements**

** Nomad-Eclipse has tightly grouped LED emitters, thus beam uniformity does not change with working distance (RRES 90061)

Glass UV Pass filter

Transmittance:

~0% < 275nm

~85% (Peak) @ 365nm

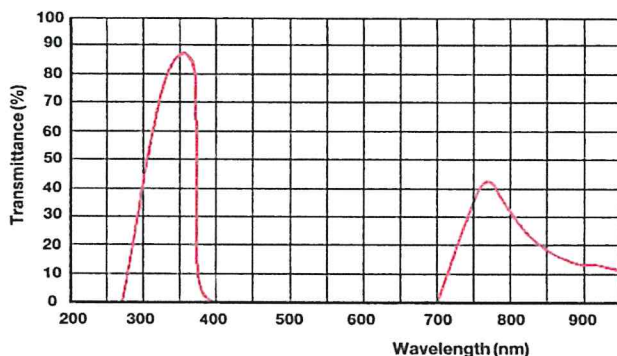
~0% > 400nm < 675nm

Secondary Peak ~42% @ 775nm

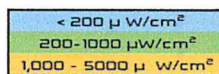
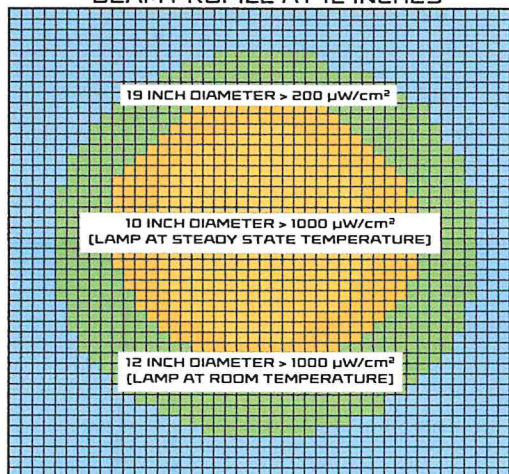
<20% above 825nm

Used in forensics, Testing, chemical analysis.

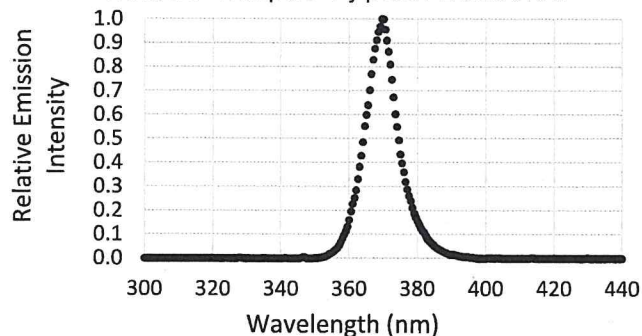
DIA: 25mm T: 1.5mm WT: .004



BEAM PROFILE AT 12 INCHES



Nomad-Eclipse Typical Emission



Performance over time

